AMSTRAD SRD 600

MODEL

SERVICE MANUAL

AMSTRAD SRD 600

General Information

1992
Satellite Receiver
Covers Models
Amstrad SRD 600 E

Specifications

TV System: D-MAC D20MAC PAL
SECAM MAC to PAL converter for VCR

Channels received:-
SRX IF:
955.5MHz-1755MHz
(inc C-BAND)

Tuning System:-
Vision: Frequency synthesis 99 presets, preset to: Astra 1A 1B, 1C, TDF-1, TV-SAT, Kopernikus, Telecom-1C, Eutelsat, Intelsat,Olympus
Sound: Frequency synthesis, 32 presets 5.4MHz to 8.7MHz

SRX de-emphasis:-
SRX: PAL/MAC
MAC: E1.E7

SRX Dynamic Range: - 35 to 60 dBm

SRX threshold:-
dynamic: 10.5dB Carrier to Noise
static: 8dB Carrier to Noise

Descrambling:
Multi-MAC (inc D-MAC and D2-MAC) Videocrypt (SRD600 (UK version only).

Decoding: *Eurocrypt-M Conditional Access Videocrypt algorithms Two ISO Smart Card Readers

Audio: SRD: D/D2-MAC packets (40 to 15khz approx) Wegender Panda stereo 32 subcarrier modes tunable between 5.4MHz and 8.7MHz with selectable deviation.

Teletext: MAC VB1 Teletext

Parental Lock:
Channel lock, record lock, Full lock,
Programme rating level locks.

Connectors: UHF Antenna input
IEC. DBS Antenna
A - f-type DBS Antenna
B - f-type. Peritel 1,
Peritel 2 2x phono -
Audio output Smart
Card A, Smart
Card B RF output -
System I/G switchable

Dimensions: 335mm(w)x322mm(d)x70mm(h)

Weight: 2.9Kg (Approx)

Power Supply:
198V AC/50Hz to 264V AC/50Hz

Accessories: Remote Control 2x AA/R6 Batteries RF Output Lead Instruction Book

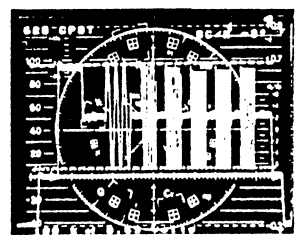
Antenna Options:
60 kit, 80cm kit or 90 cm kit
Single or Twin LNB

*Eurocrypt by licence CCETT

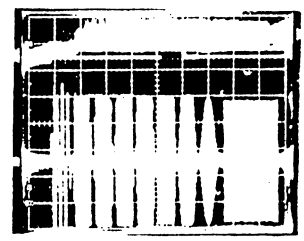
Adjustments Table

Adjustment Item	Input C/N	Modulation Signal	Test Point	Adjustment Point	Adjustment Method
AFC		Coller Bar	Panel Digital Display	VR 101	1: Input 11,318 MHz/Ch8 2: Push Stand By Key (Panel Display) 3: Push Preset Key (Panel Display: Flashing) 4: Adjust 11.318 MHz/ VR101
Gain	20dB<	White 100%	(Peritel 2 19pin) VCR/Decod Scart 19 pin	VR 100	1: Input 11,318 MHz/Ch8 2: Set to PAL, Decover Sw 3: Set to '0.95V' (Output Level)
Video Frequency Character-istic Adjustment	20dB<	Multi-burst		VC 101 (Main)	1: Input 11,318 MHz/Ch8 2: Set to PAL, Decover Sw 3: Adjust as in Fig 1 4: Input to VCR, Decover Sw to VCR 5: Confirm waveform as in Fig 1
Audio Level Adjustment	20dB<	L=1KHz S/N R=400Hz S/N	Audio Out L/R	L=VR 301 R=VR 302	1: Set to ST1, Audio key 2: Input, L=7.02 MHz 3: Set to 2Vp-p, VR301 4: Input, R=7.20 MHz 5: Set to 2Vp-p, VR 302
Vp-p Adjustment		MAC Test Pattern	Pin or CN20 1 pin		1: Connect LNB (43ohm) 2: Pess service key and TV/SAT key 3: Input Service Mode 4: Set Mode 9 Channel Sw up/down key 5: Input 390 ohm (VppA-GND 6: Set RV21 (PSU)/21V 7: Set mode 7 Channel Sw up/down key 8: Set 12.5V/VR 701 9: Release the Service Mode, TV/SAT key
MAC OSC Adjustment		MAC Test Pattern	Monitor TV		1: Set the Service Mode 2: Stop the Monitor/Search Sw up/down 3: Push the Store key of Rem-con 4: Release the Service Mode, TV/SAT key
PAL OSC Adjustment 4.436619 MHz +/- 100Hz			IC 14 6pin	C361 (MAC PCB)	1: Connect the oscilloscope to pin 6 of IC14 on Main PCB with High-impedance 2: Adjust C361/4.433619 MHz on the oscilloscope 3: Use high-impedance probe which impedance is less than 2PF
Video Frequency Response Adjustment	20dB<	Multi-burst MAC	R 178 or IC 13 35,37 pin	VC 100	1: Input MAC 2: Input Decover Sw/VCR 3: Adjust as in Fig 2 NOTE: Proceed this adjustment after Video Frequency Response Adjustment

(Fig 1)

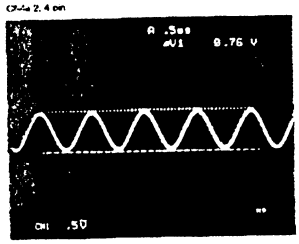


(Fig 2)

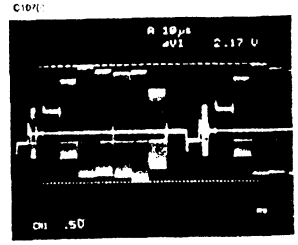


Waveforms

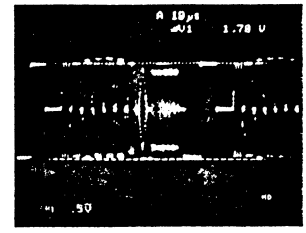
MAIN P.C.B. (Audio) 1kHz
CN4a 2, 4 pin



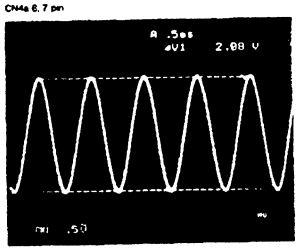
MAIN P.C.B. (Video) Input PAL
C107(



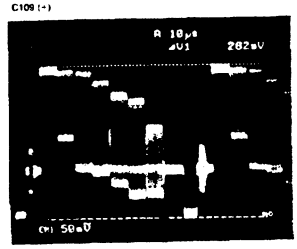
MAC P.C.B. Input MAC SG Multiburst
IC13a 35, 37 pin



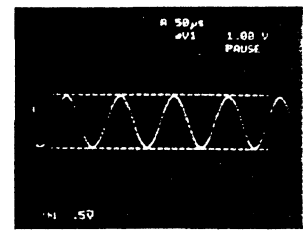
CN4a 6, 7 pin



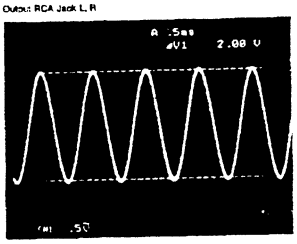
C109 (+)



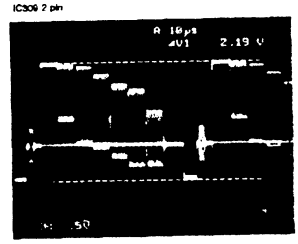
Audio input L= 10kHz, R= 2kHz CN18 MAL MAR



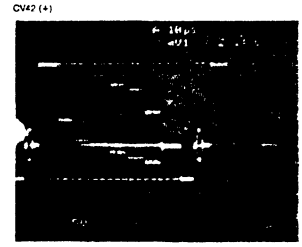
Output RCA Jack L R



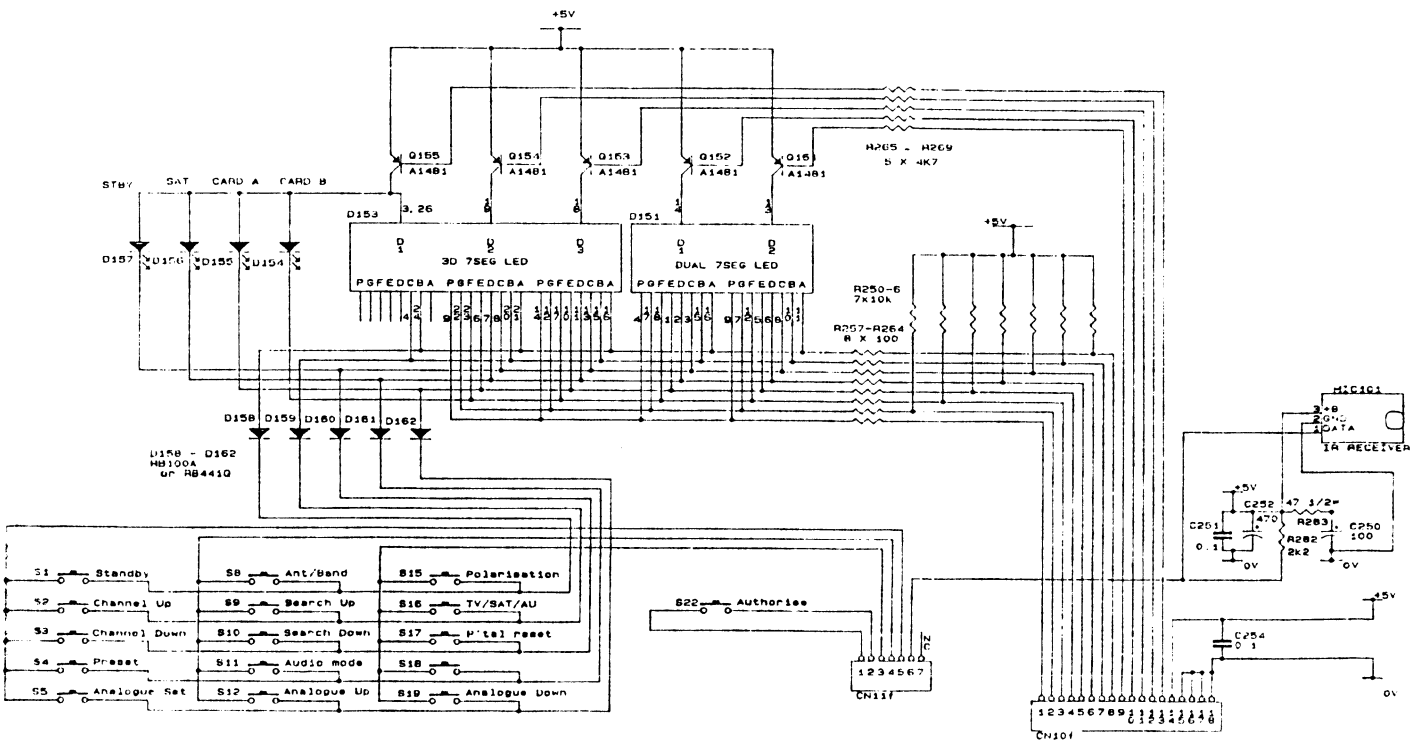
IC306 2 pin



CV42 (+)



Front Panel Diagram



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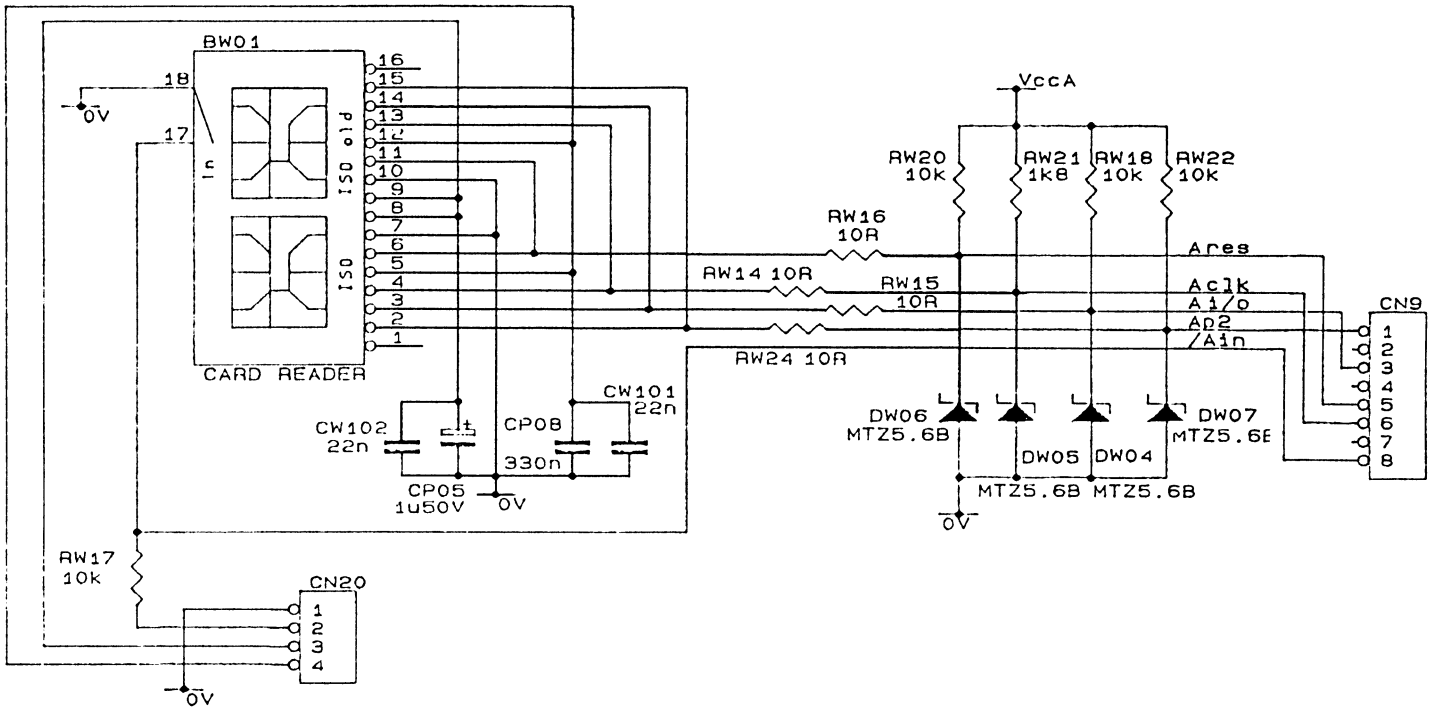
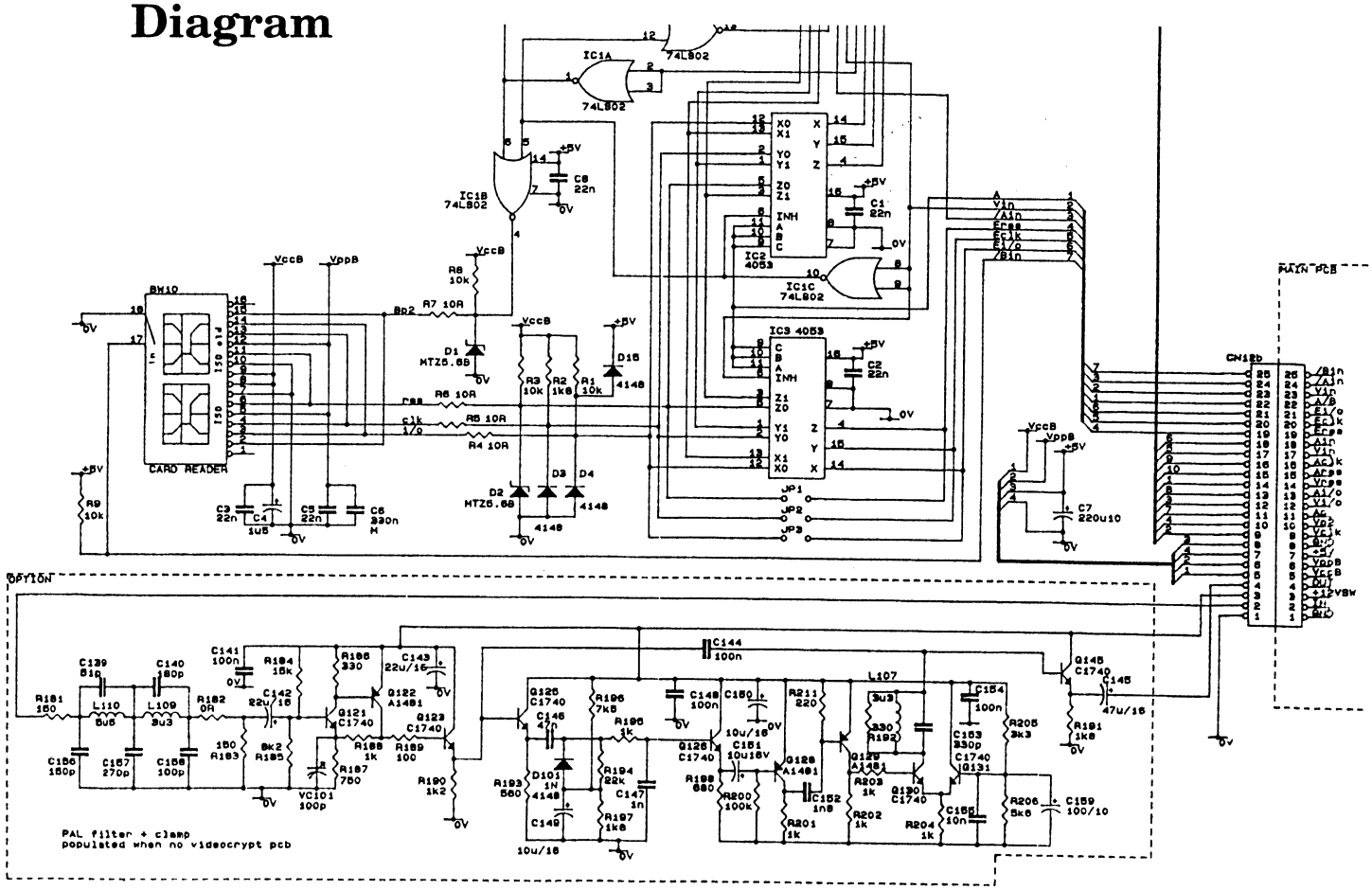
Card A Diagram (SRD 600D)



Card B & Option Diagram



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Voltage Charts

SRD600 MAIN PCB NO. 1

IC TRANSISTOR VOLTAG CHART

Ref	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)
IC151	1	4.80	IC152	9	4.96	IC156	3	2.52	IC156	3 1	0.15
	2	3.57		1 0	0		4	2.28		3 2	4.78
	3	2.45		1 1	4.97		5	4.98		3 3	4.74
	4	1.95		1 2	0		6	4.98		3 4	4.75
	5	3.57		1 3	2.08		7	4.98		3 5	0.15
	6	3.56		1 4	2.51		8	4.98		3 6	4.75
	7	2.12		1 5	0		9	4.98		3 7	4.76
	8	2.34		1 6	0		1 0	4.92		3 8	2.94
	9	3.54		1 7	1.93		1 1	4.96		3 9	4.74
	1 0	0		1 8	2.60		1 2	4.96		4 0	0.13
	1 1	4.57		1 9	4.97		1 3	0.93		4 1	0.16
	1 2	3.56		2 0	4.97		1 4	0.91		4 2	4.96
	1 3	2.08	IC155	1	0		1 5	4.95		4 3	4.86
	1 4	2.51		2	0		1 6	0.95		4 4	4.97
	1 5	4.39		3	4.97		1 7	4.90		4 5	4.97
	1 6	4.39		4	0		1 8	1.0		4 6	4.97
	1 7	1.93		5	0		1 9	0.95		4 7	4.97
	1 8	2.60		6	4.97		2 0	1.0		4 8	2.54
	1 9	4.37		7	0		2 1	2.82		4 9	4.40
	2 0	4.37		8	1.77		2 2	2.78		5 0	0.40
IC152	1	4.81		9	4.80		2 3	1.30		5 1	0
	2	0		1 0	4.80		2 4	3.72		5 2	3.58
	3	2.45		1 1	0.45		2 5	4.79		5 3	3.58
	4	1.95		1 2	4.97		2 6	1.1		5 4	4.92
	5	0		1 3	4.51		2 7	1.5		5 5	4.92
	6	0		1 4	4.97		2 8	3.3		5 6	0.04
	7	2.12	IC156	1	4.97		2 9	0.16		5 7	4.95
	8	2.33		2	0		3 0	0.15		5 8	0

SRD600 MAIN PCB NO. 2

IC TRANSISTOR VOLTAG CHART

Ref	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)
IC156	5 9	0.02	IC157	1 9	2.69	IC159	1 1	4.26	IC307	5	2.46
	6 0	4.82		2 0	0		1 2	0		6	2.46
	6 1	3.92		2 1	2.85		1 3	2.48		7	4.91
	6 2	3.92		2 2	0.45		1 4	2.50		8	5.73
	6 3	3.92		2 3	1.73		1 5	0		9	5.13
	6 4	2.98		2 4	1.92		1 6	0.01		1 0	5.19
	6 5	3.92		2 5	2.09		1 7	1.92		1 1	0
	6 6	3.92		2 6	2.30		1 8	2.60		1 2	5.42
	6 7	3.52		2 7	2.30		1 9	0.01		1 3	5.42
	6 8	4.96		2 8	4.97		2 0	4.97		1 4	5.42
IC157	1	2.18	IC158	1	0	IC163	1	0	IC308	1	5.20
	2	3.01		2	4.43		2	2.29		2	4.39
	3	2.23		3	0		3	4.97		3	5.22
	4	2.2		4	4.97		4	4.97		4	0
	5	1.91		5	4.96		5	4.97		5	4.35
	6	2.14		6	4.96		6	0		6	0
	7	2.40		7	4.96		7	0		7	0
	8	1.83		8	4.96		8	2.50		8	0
	9	1.95	IC159	1	8.17		9	2.60		9	9.76
	1 0	1.61		2	0		1 0	2.60		1 0	9.76
	1 1	2.45		3	2.44		1 1	2.30		1 1	10.86
	1 2	1.96		4	1.55		1 2	2.50		1 2	5.20
	1 3	2.13		5	4.97		1 3	2.50		1 3	5.22
	1 4	0		6	4.97		1 4	4.96		1 4	5.22
	1 5	2.34		7	2.12	IC307	1	5.42		1 5	5.20
	1 6	2.08		8	2.33		2	5.42		1 6	12.27
	1 7	2.51		9	4.97		3	5.42	IC309	1	12.06
	1 8	1.93		1 0	0		4	10.86		2	7.24

SRD600 AUDIO PCB. CARD B PCB

IC TRANSISTOR VOLTAG CHART

Ref	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)
IC302	1	5.92	IC803	1 3	-4.18	IC 1	1	4.22	IC 3	1	0.1
	2	5.92		1 4	0		2	0.2		2	0
	3	0	IC804	1	8		3	0.2		3	0.1
	4	5.51		2	1.8		4	0.1		4	0
	5	6.36		3	4.0		5	4.4		5	0
	6	10.85		4	4.71		6	4.2		6	0.1
	7	5.91		5	4.71		7	0		7	0
	8	5.91		6	1.85		8	0.01		8	0
	9	3.57		7	2.74		9	0.01		9	0
	1 0	3.57		8	3.49		1 0	0		1 0	0
	1 1	3.56		9	2.74		1 1	4.2		1 1	0
	1 2	0		1 0	0		1 2	4.4		1 2	0
	1 3	6.01		1 1	4.2		1 3	0.1		1 3	0.1
	1 4	3.57		1 2	4.4		1 4	4.98		1 4	4.97
	1 5	3.57		1 3	0.1	IC 2	1	0.1			
	1 6	3.57		1 4	4.97		2	0			
IC803	1	4.92					3	0.1			
	2	2.46					4	0			
	3	0					5	0			
	4	4.94					6	4.41			
	5	4.94					7	0			
	6	4.69					8	0			
	7	0					9	0			
	8	2.25					1 0	0			
	9	0					1 1	0			
	1 0	0					1 2	0.1			
	1 1	0					1 3	0.1			
	1 2	0					1 4	4.98			

SRD600 MAIN PCB NO. 3

IC TRANSISTOR VOLTAG CHART

Ref	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)
	3	3.43		7	7.89	CN1	1	5.02	CN15	7	4.97
	4	6.61		8	0		2	5.02		8	12.25
	5	0	IC701	1	0		3	12.30		9	0
	6	0		2	0.28		4	0.4		1 0	0
	7	7.94		3	4.08		5	13.17	CN16	1	0
	8	0		4	4.97		6	0.95		2	0
IC310	1	3.70		5	3.32		7	22.9		3	0
	2	0		6	0.28		8	0		4	7.88
	3	5.21		7	0.6		9	0		5	1.79
	4	0		8	4.98		1 0	0		6	1.87
IC310	5	5.20	IC802	1	10.31	CN2	1	12.10		7	1.79
	6	0		2	6.40		2	0.3		8	4.93
	7	0		3	6.70		3	0.3		9	0
	8	0		4	12.25		4	0.3		1 0	0.90
	9	0.1		5	6.40	CN13	1	4.97	CN8	1	4.81
	1 0	0		6	6.17		2	4.71		2	0
	1 1	0.1		7	10.90		3	4.81		3	0
	1 2	0.1		8	6.40		4	4.71		4	0.04
	1 3	4.82		9	6.20		5	4.97		5	0.04
	1 4	5.21		1 0	6.15		6	4.97		6	0.15
	1 5	5.20		1 1	0		7	4.97		7	0.04
	1 6	12.27		1 2	0		8	0.04		8	0.14
IC311	1	12.06		1 3	0	CN15	1	0		9	0.04
	2	0		1 4	11.05		2	4.97		1 0	0.17
	3	4.79					3	4.98		1 1	0.15
	4	7.24					4	0		1 2	4.88
	5	0					5	0		1 3	4.88
	6	0					6	0		1 4	4.88

SRD600 MAIN PCB NO. 4

IC TRANSISTOR VOLTAG CHART

Ref	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)
CN8	1 5	0.03	CN12	1 9	0						
	1 6	0.06		2 0	0						
	1 7	0.12		2 1	0.02						
	1 8	0.04		2 2	0						
	1 9	4.88		2 3	0.01						
	2 0	0		2 4	0.03						
	2 1	12.0		2 5	0						
	2 2	7.80									
	2 3	0									
	2 4	6.31									
CN12	1	0									
	2	6.45									
	3	12.08									
	4	7.87									
	5	0.01									
	6	0.1									
	7	4.97									
	8	0									
	9	0.18									
	1 0	0.20									
	1 1	0.08									
	1 2	0									
	1 3	0.08									
	1 4	0									
	1 5	0.08									
	1 6	0.08									
	1 7	0.01									
	1 8	0.03									

SRD600 MAC PCB NO. 2

IC TRANSISTOR VOLTAG CHART

Ref	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)
IC2	4 5	2.19	IC4	5	0	IC4	3 3	0	IC6	2 1	1.77
	4 6	0.01		6	0		3 4	0		2 2	9.12
	4 7	4.86		7	0		3 5	4.92		2 3	9.11
	4 8	2.90		8	0		3 6	2.34		2 4	0
	4 9	4.88		9	0.6		3 7	0.05	IC7	1	0
	5 0	4.42		1 0	0		3 8	0.91		2	4.87
	5 1	4.41		1 1	4.84		3 9	0.87		3	4.90
	5 2	0.84		1 2	4.41		4 0	0.87		4	3.29
	5 3	4.42		1 3	4.96	IC6	1	0.05		5	0.01
	5 4	0		1 4	4.96		2	4.92		6	0.01
	5 5	4.53		1 5	4.96		3	4.96		7	0.31
	5 6	4.50		1 6	4.96		4	4.95		8	4.31
	5 7	4.72		1 7	2.22		5	4.95		9	0.51
	5 8	4.86		1 8	2.22		6	0.85		1 0	0.01
	5 9	1.34		1 9	2.71		7	4.93		1 1	0.01
	6 0	2.73		2 0	0		8	0.81		1 2	0.01
	6 1	0		2 1	2.43		9	0.71		1 3	0.01
	6 2	2.34		2 2	2.46		1 0	-3.54		1 4	4.87
	6 3	4.92		2 3	2.58		1 1	4.95		1 5	3.84
	6 4	4.88		2 4	0.9		1 2	0		1 6	0
	6 5	2.45		2 5	3.85		1 3	2.48	IC8	1	0
	6 6	1.95		2 6	4.18		1 4	4.93		2	1.00
	6 7	1.93		2 7	0.15		1 5	4.87		3	4.90
	6 8	0.7		2 8	1.23		1 6	0.38		4	4.79
IC4	1	0.83		2 9	4.80		1 7	0.96		5	4.82
	2	0.83		3 0	3.82		1 8	4.92		6	0.09
	3	0.83		3 1	1.99		1 9	3.64		7	4.83
	4	0.83		3 2	0		2 0	3.64		8	4.91

AMSTRAD SRD 600

Voltage Charts Cont'd.

SRD600 MAC PCB NO. 1

IC TRANSISTOR VOLTAG CHART

Ref	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)
IC1	1	4.88		29	2.32		57	4.59		17	2.48
	2	0.01		30	2.35		58	0.17		18	0
	3	0.01		31	1.94		59	0.05		19	1.00
	4	0.01		32	0		60	0.05		20	0.9
	5	0.01		33	0		61	0		21	1.08
	6	0.01		34	0		62	0		22	1.08
	7	4.90		35	0		63	4.91		23	1.08
	8	3.29		36	0		64	4.88		24	1.08
	9	0.01		37	4.77		65	2.48		25	0.8
	10	0.09		38	4.91		66	0.7		26	0.8
	11	0.01		39	2.46		67	0		27	0.4
	12	4.68		40	2.90		68	0.7		28	0.4
	13	4.79		41	2.62	IC2	1	4.89		29	0.36
	14	4.70		42	2.56		2	0.04		30	0.36
	15	4.96		43	2.68		3	0.04		31	0.38
	16	2.33		44	2.65		4	0.04		32	0.36
	17	4.86		45	2.42		5	0.04		33	0.39
	18	0		46	0		6	0.05		34	0.36
	19	0.90		47	0.02		7	4.89		35	0.67
	20	0.80		48	0		8	3.32		36	0.36
	21	4.09		49	4.77		9	0.06		37	0.32
	22	4.53		50	0.02		10	0.06		38	0.24
	23	4.49		51	0.18		11	0.09		39	1.5
	24	0.01		52	0.18		12	4.69		40	2.62
	25	2.27		53	0.18		13	4.79		41	2.34
	26	2.27		54	0.18		14	4.70		42	2.17
	27	2.31		55	0.18		15	4.96		43	2.15
	28	2.32		56	4.90		16	2.44		44	2.19

SRD600 MAC PCB NO. 4

IC TRANSISTOR VOLTAG CHART

Ref	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)
IC14	19	4.96									
	20	3.42									
	21	3.02									
	22	3.02									
	23	3.00									
	24	0									
IC100	1	2.20									
	2	2.20									
	3	2.25									
	4	2.25									
	5	1.62									
	6	0.74									
	7	0									
	8	2.44									
	9	2.86									
	10	2.25									
	11	2.84									
	12	2.85									
	13	2.20									
	14	12.20									

SRD600 MAC PCB

IC TRANSISTOR VOLTAGE CHART

REF.	E	C	B	REF.	E	C	B
Q 9	11.45	12.23	12.16				
Q 5	2.37	4.94	2.97				
Q 6	2.33	4.94	2.94				
Q 7	2.31	4.94	2.91				
Q110	5.38	12.23	6.03				
Q111	7.60	12.23	8.25				
Q112	0.68	10.11	1.31				
Q113	12.22	5.62	10.10				
Q114	5.14	12.24	5.70				
Q116	0	3.45	0.60				
Q117	2.90	12.22	3.47				
Q120	2.30	12.10	2.92				
Q812	8.18	11.45	8.82				
Q813	0.37	5.20	1.00				
Q814	8.18	11.45	8.82				
Q815	0.34	5.72	0.98				
FET	S	G	D				
Q118	7.46	4.50	8.24				
Q119	4.51	4.50	4.51				
Q132	0	4.97	0				

SRD600 MAC PCB NO. 3

IC TRANSISTOR VOLTAG CHART

Ref	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)	Ref.	Pin No.	(V)
IC8	9	0.06	IC10	5	1.86	IC13	3	2.75	IC13	31	0.74
	10	0.07		6	2.27		4	2.67		32	0.70
	11	0.07		7	2.18		5	2.57		33	0
	12	0.07		8	4.92		6	2.40		34	4.89
	13	0.07		9	0.55		7	1.85		35	5.87
	14	1.00		10	2.41		8	3.39		36	4.42
	15	4.89		11	2.41		9	4.92		37	5.87
	16	0		12	2.52		10	0.22		38	12.20
IC9	1	0		13	1.06		11	0.15		39	4.39
	2	4.88		14	3.99		12	0.18		40	0
	3	4.89		15	3.99		13	0.50	IC14	1	0
	4	3.32		16	0		14	0.17		2	2.79
	5	0.04	IC12	1	0		15	1.20		3	2.80
	6	0.04		2	2.32		16	0.17		4	2.80
	7	0.04		3	2.41		17	1.20		5	3.23
	8	4.91		4	4.88		18	0.16		6	3.02
	9	0.06		5	0.78		19	0.16		7	0
	10	0.06		6	0.78		20	0.16		8	2.49
	11	0.05		7	0		21	0.16		9	2.50
	12	0.05		8	3.99		22	2.31		10	4.46
	13	0.06		9	0		23	4.96		11	2.67
	14	4.88		10	0		24	0		12	4.96
	15	3.98		11	4.05		25	4.95		13	1.21
	16	0		12	1.85		26	5.95		14	1.98
IC10	1	4.15		13	3.59		27	5.92		15	2.57
	2	0.16		14	4.88		28	5.87		16	2.57
	3	1.30	IC13	1	4.96		29	0		17	2.19
	4	3.75		2	2.51		30	0		18	2.37

SRD600 MAIN PCB

IC TRANSISTOR VOLTAGE CHART

REF.	E	C	B	REF.	E	C	B
Q 3	0.5	0.5	1.2	Q705	0.77	0.90	1.50
Q 4	0.5	4.97	0.5	Q708	4.97	1.17	4.92
Q100	12.38	13.01	1.32	Q709	4.97	1.17	4.92
Q101	0	0.06	0.07	Q710	4.97	1.17	4.92
Q102	13.04	0	13.05	Q711	0.50	16.86	1.16
Q103	0	13.05	0	Q712	0.50	11.71	1.18
Q104	0	0.67	0	Q714	22.70	5.00	22.20
Q105	4.22	8.33	4.74	Q715	5.00	0.10	4.96
Q106	0	0	0	Q716	5.00	5.00	4.32
Q107	1.41	11.45	2.00	Q717	0	0.05	0
Q108	12.09	7.21	11.45	Q718	0	4.84	0
Q109	6.52	12.09	7.19	Q721	0	0	0.60
Q132	4.95	0	4.95	Q722	0	1.16	0
Q133	0	0	0.65	Q723	4.97	0.12	4.93
Q134	0	10.88	0	Q724	4.97	0.12	4.93
Q135	0	0	0.65	Q725	0	0	0
Q136	6.61	12.11	7.28	Q726	0.05	0.80	0.70
Q137	0	10.90	5.22	Q727	0	0	0.70
Q138	4.60	10.89	5.16	Q728	1.90	1.30	0.60
Q404	0	4.95	0	Q729	0	0.07	0.65
Q450	5.99	12.10	6.65	Q730	11.02	12.23	11.80
Q452	4.63	10.90	5.10	Q807	9.47	12.40	10.10
Q453	4.62	10.90	5.22				
Q455	0.04	9.79	0.84				
Q701	19.68	17.68	19.03				
Q702	1.50	0.03	2.08				
Q703	0	0.02	0.06				
Q704	12.29	12.10	11.48				

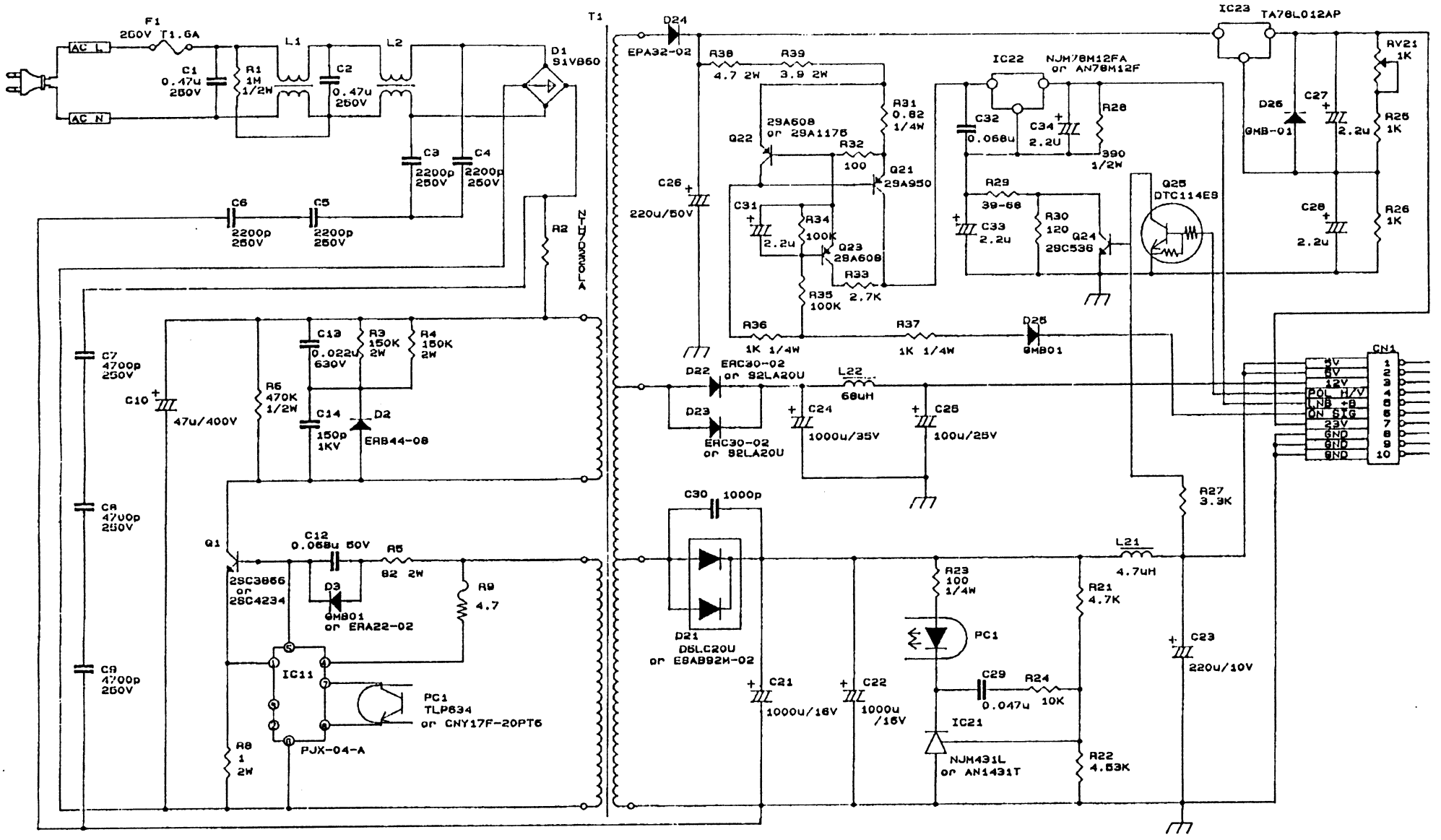
SRD600 FRONT PCB. AUDIO PCB

IC TRANSISTOR VOLTAGE CHART

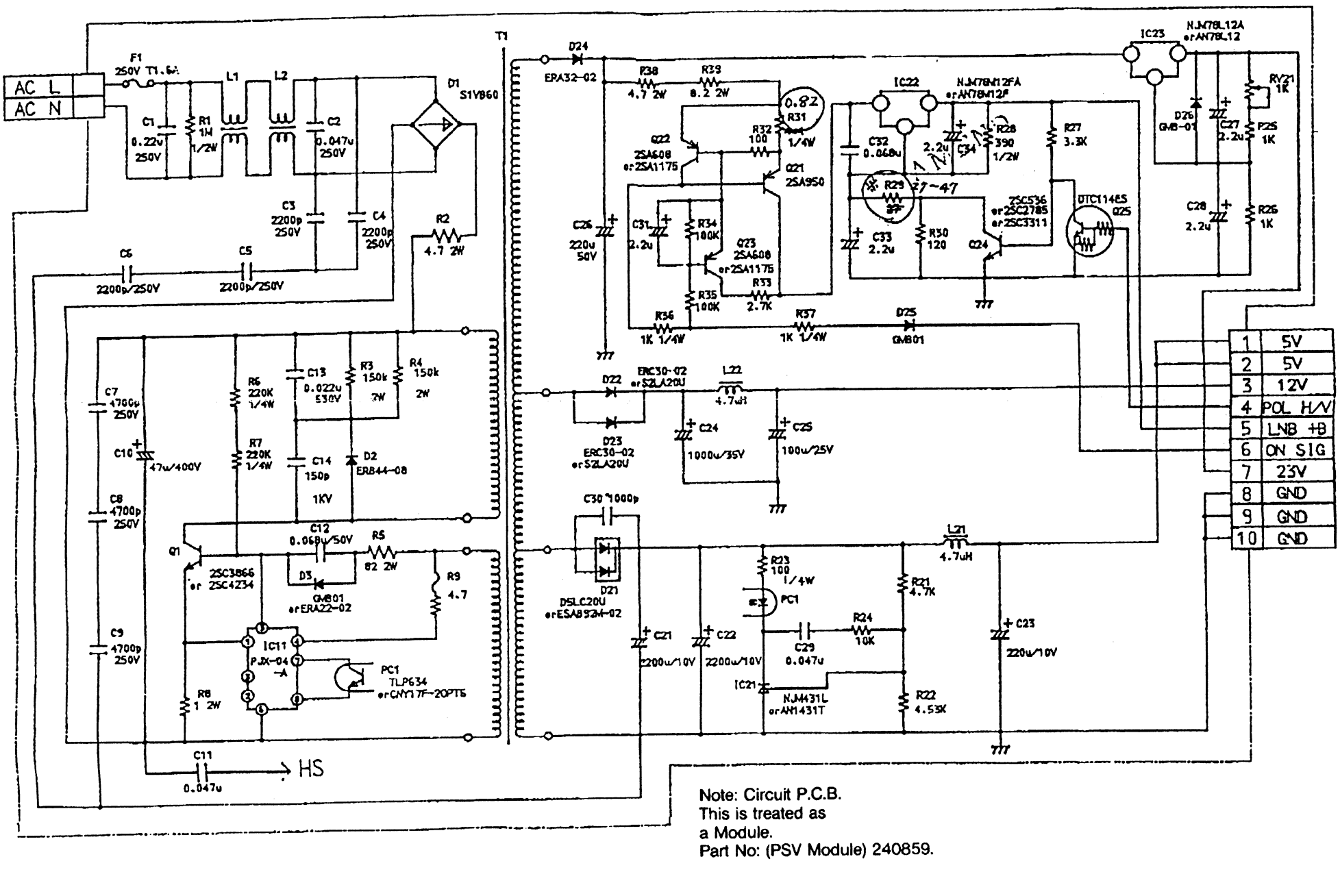
REF.	E	C	B	REF.	E	C	B
Q151	4.84	3.93	4.37	Q302	5.12	10.98	5.71
Q152	4.84	3.98	4.39	Q801	0	10.50	0
Q153	4.84	3.29	4.39	Q808	10.98	10.96	10.32
Q154	4.84	3.20	4.38	Q809	10.98	0.95	10.58
Q155	4.84	3.50	4.38	Q810	5.34	0	4.68
				Q811	5.34	0	4.69
				Q816	1.87	10.47	2.42
				Q820	1.96	10.47	1.87
				Q822	0	10.84	0.02
				FET	S	D	G1/G2
				Q805	0.24	10.97	0.30/0.40

AMSTRAD SRD 600

PSU Diagram

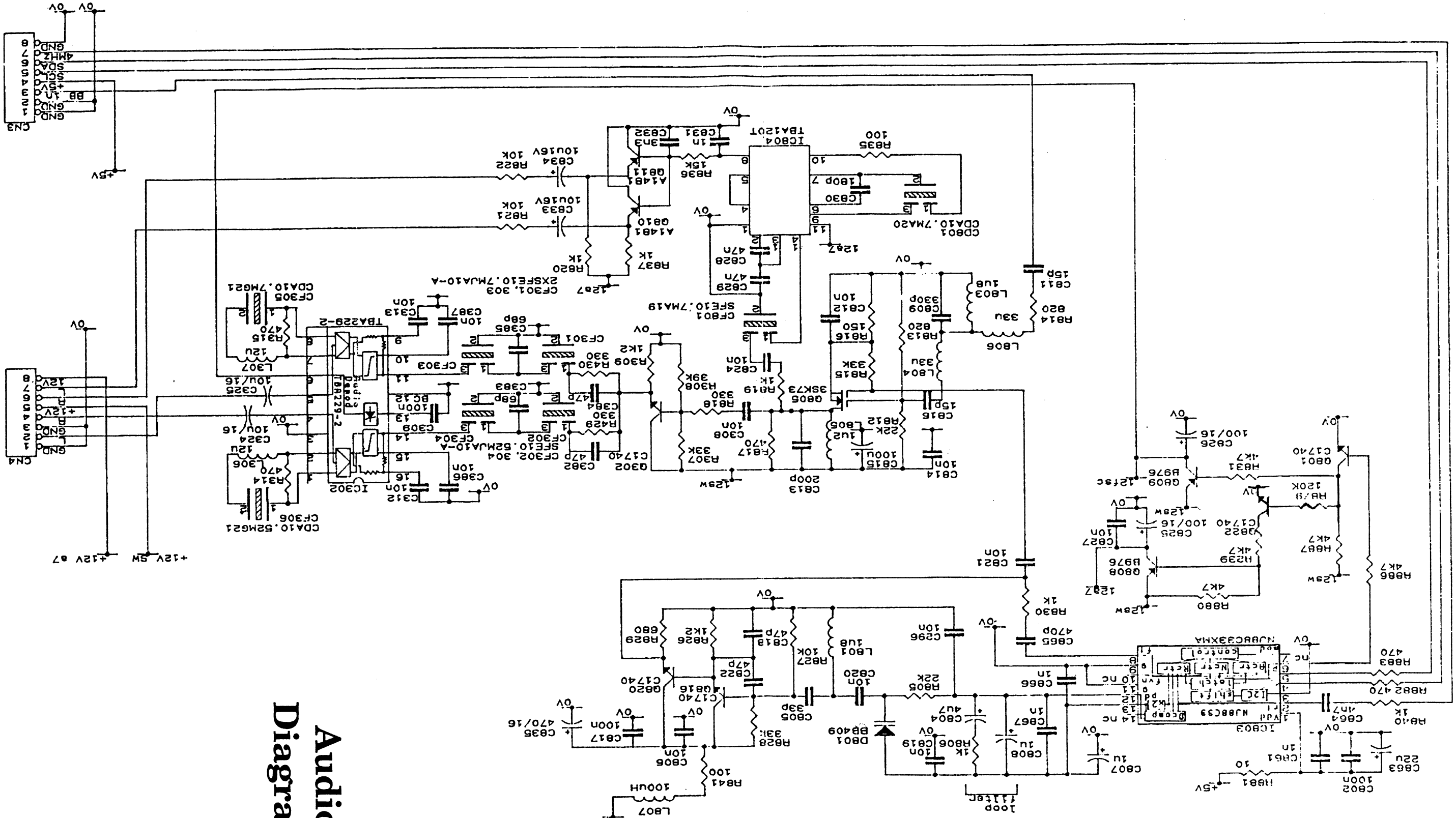


PSV Diagram (SRD 600E)

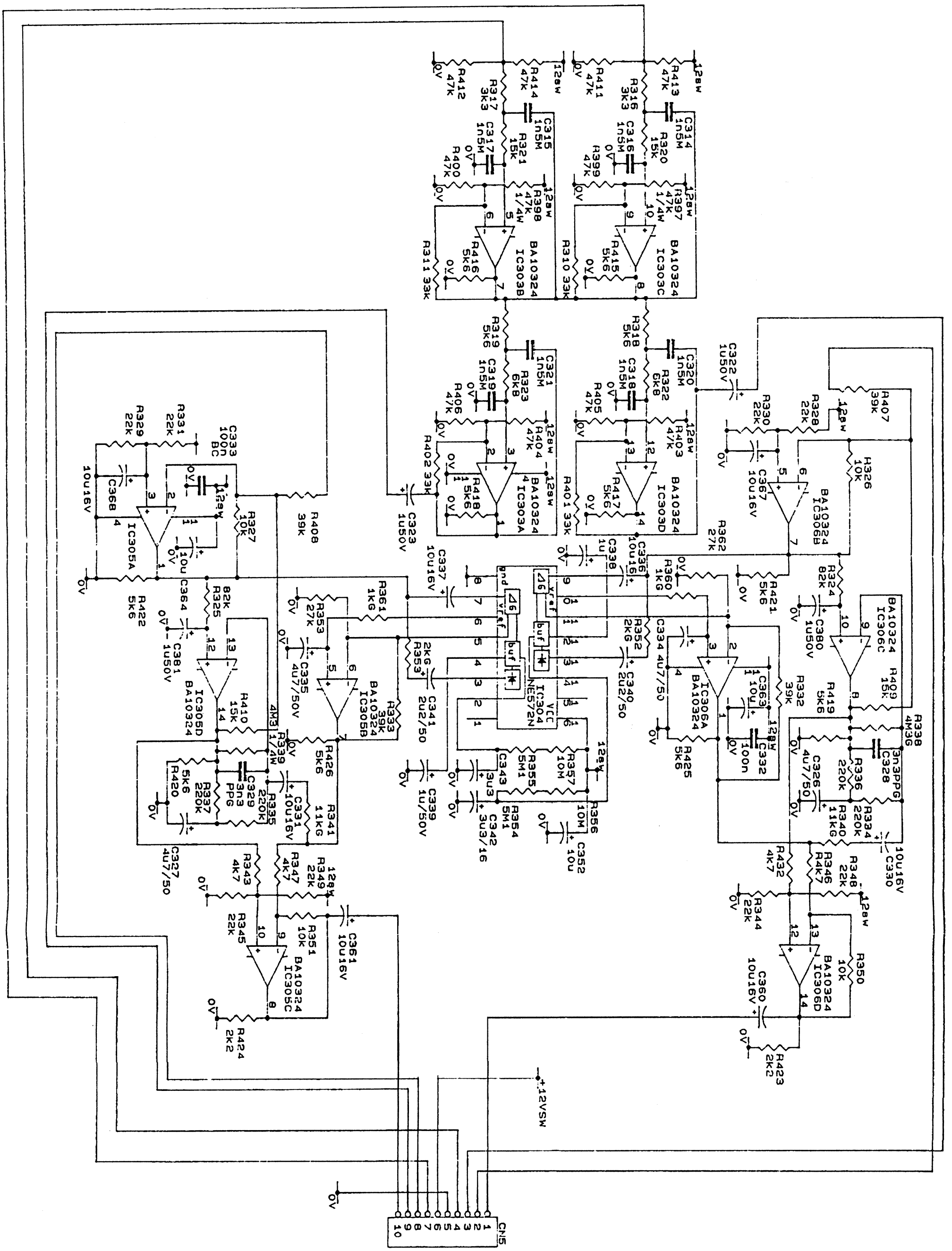


Note: Circuit P.C.B.
This is treated as
a Module.
Part No: (PSV Module) 240859.

Audio Diagram

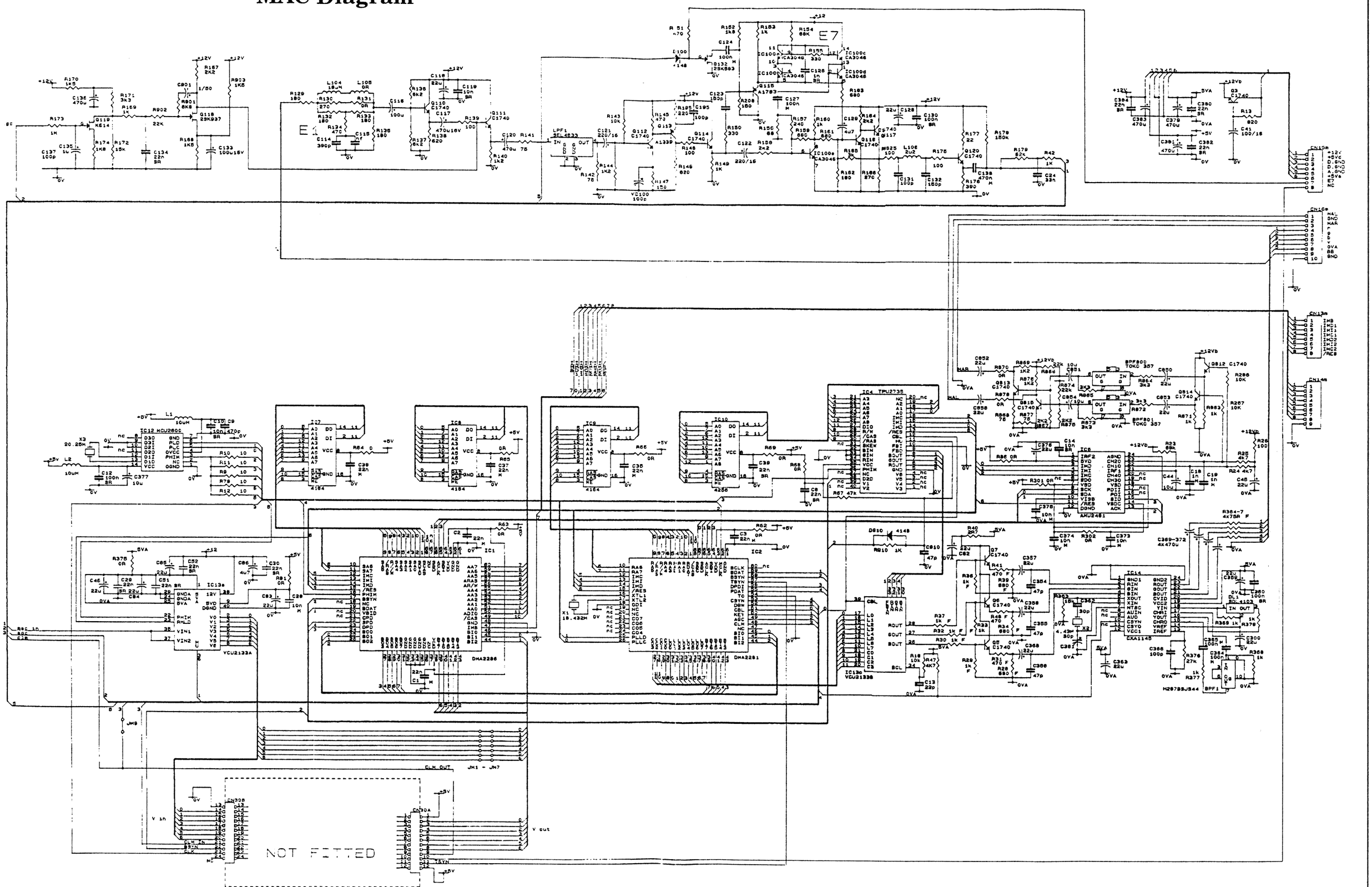


HIC Diagram

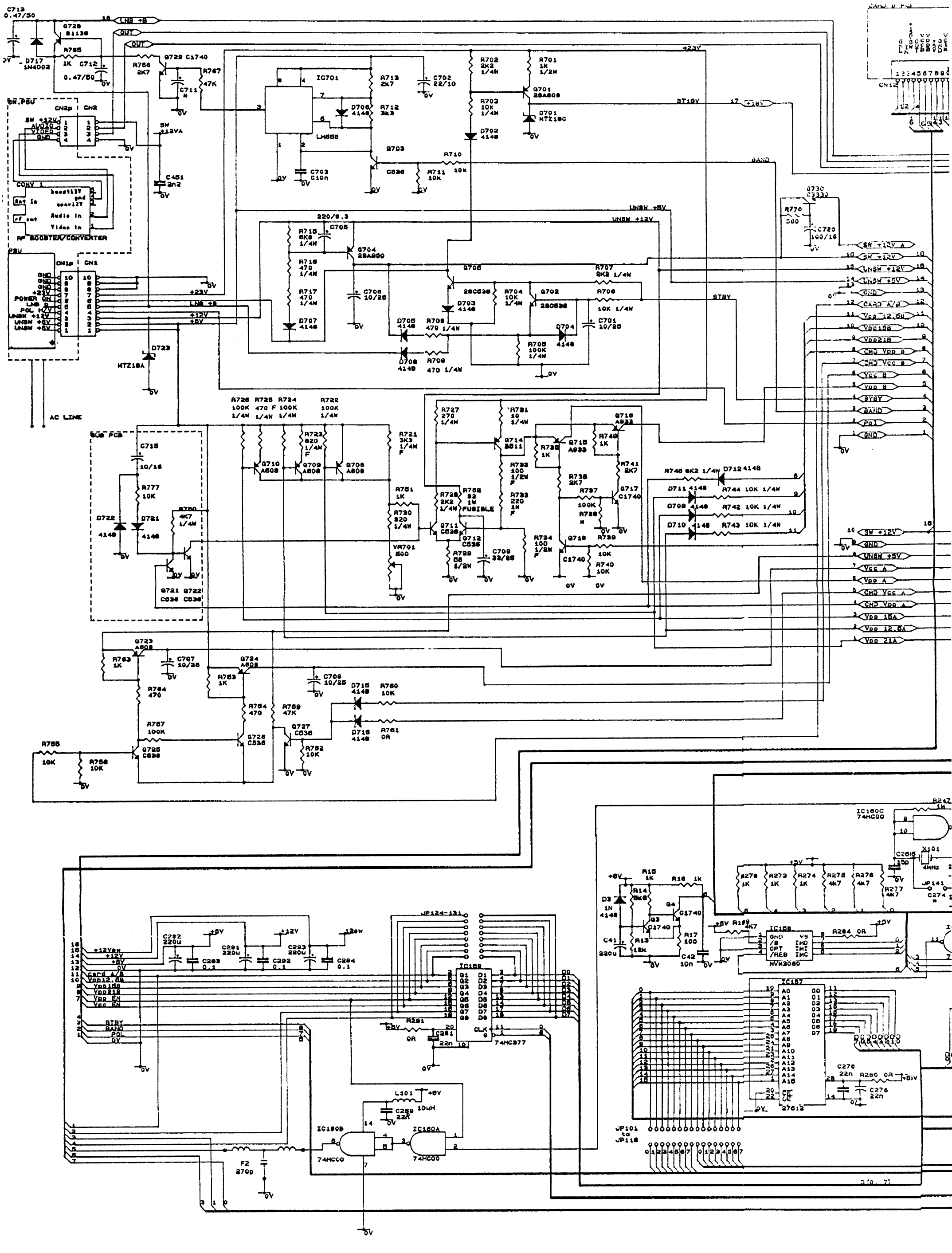

+12VSW
0V
CN5
IC303A BA10324
IC303B BA10324
IC303C BA10324
IC303D BA10324
IC305A BA10324
IC305B BA10324
IC305C BA10324
IC305D BA10324
IC306A BA10324
IC306B BA10324
IC306C BA10324
IC306D BA10324
IC304 NE572N
R311 33k
R310 33k
R401 33k
R402 33k
R415 5k6
R416 5k6
R417 5k6
R418 15k6
R421 5k6
R422 5k6
R423 2k2
R424 2k2
R425 5k6
R426 5k6
R419 5k6
R420 5k6
R412 47k
R413 47k
R414 47k
R411 47k
R317 3k3
R316 3k3
R321 15k
R320 15k
R400 47k
R399 47k
R398 47k 1/4W
R397 47k 1/4W
R319 5k6
R318 5k6
R323 6k8
R322 6k8
R406 47k
R405 47k
R404 47k
R403 47k
R329 22k
R331 22k
R330 22k
R328 22k
R327 10k
R326 10k
R325 82k
R324 82k
R407 39k
R408 39k
R409 15k
R410 15k
R353 27k
R352 2kG
R361 1kG
R360 1kG
R362 27k
R333 39k
R332 39k
R338 4M3G
R339 4M3 1/4W
R355 5M1
R357 10M
R354 5M1
R356 10M
R343 4K7
R347 4K7
R432 4K7
R346 4K7
R345 22k
R349 22k
R344 22k
R348 22k
R351 10k
R350 10k
R337 220K
R335 220K
R336 220k
R334 220k
R341 11kG
R340 11kG
C322 1u50V
C323 1u50V
C380 1u50V
C381 1u50V
C337 10u16V
C338 1u
C336 10u16V
C367 10u16V
C368 10u16V
C330 10u16V
C331 10u16V
C361 10u16V
C360 10u16V
C314 1n5M
C315 1n5M
C316 1n5M
C317 1n5M
C318 1n5M
C319 1n5M
C320 1n5M
C321 1n5M
C333 100n BC
C332 100n
C328 3n3PPG
C329 3n3 PPG
C326 4u7/50
C327 4u7/50
C364 4u7/50
C335 4u7/50
C334 4u7/50
C340 2u2/50
C341 2u2/50
C339 1u/50V
C342 3u3/16
C343 3u3
C352 10u
C363 10u
10u
xtal
vref
buf
gnd

AMSTRAD SRD 600

MAC Diagram



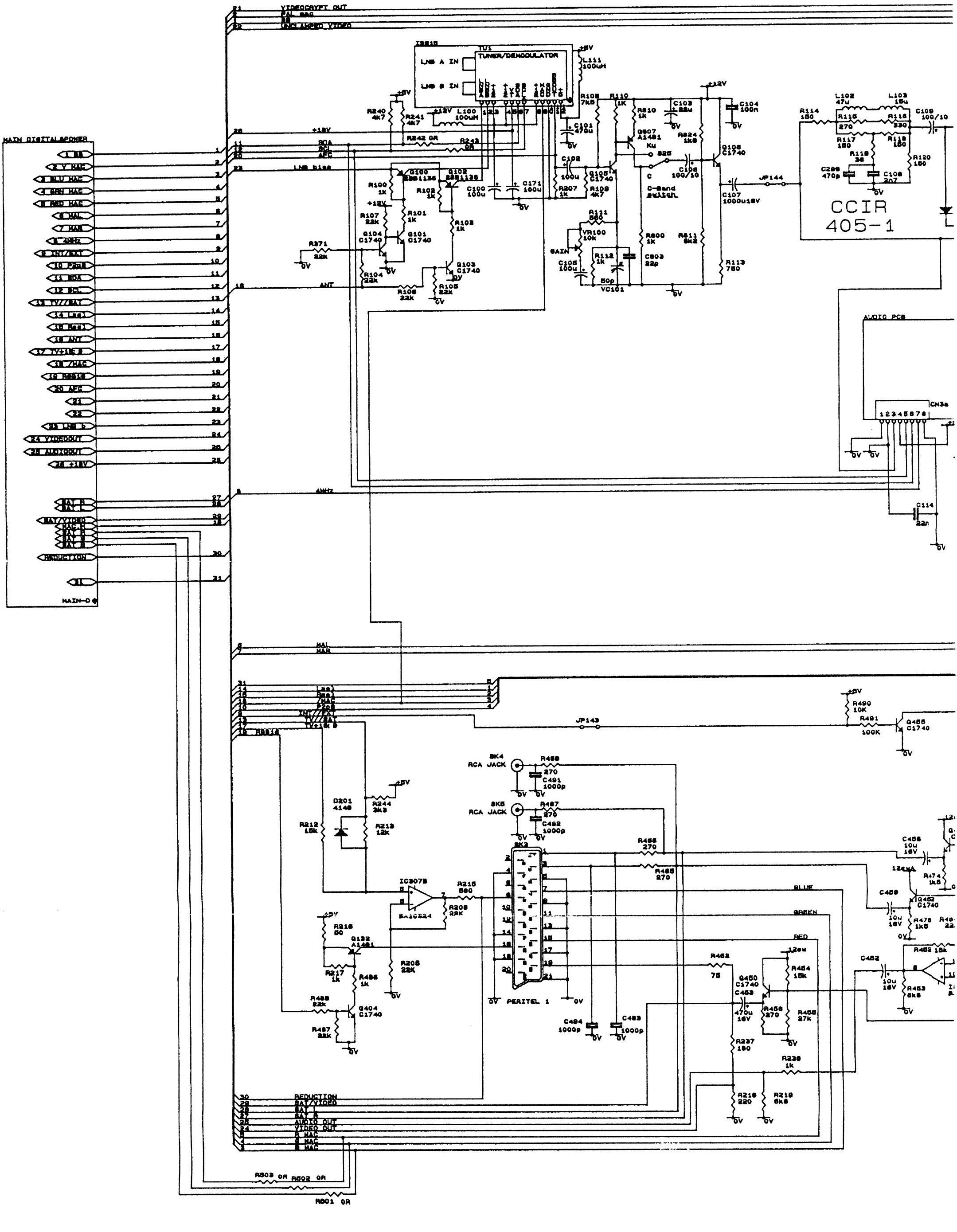
AMSTRAD SRD 600



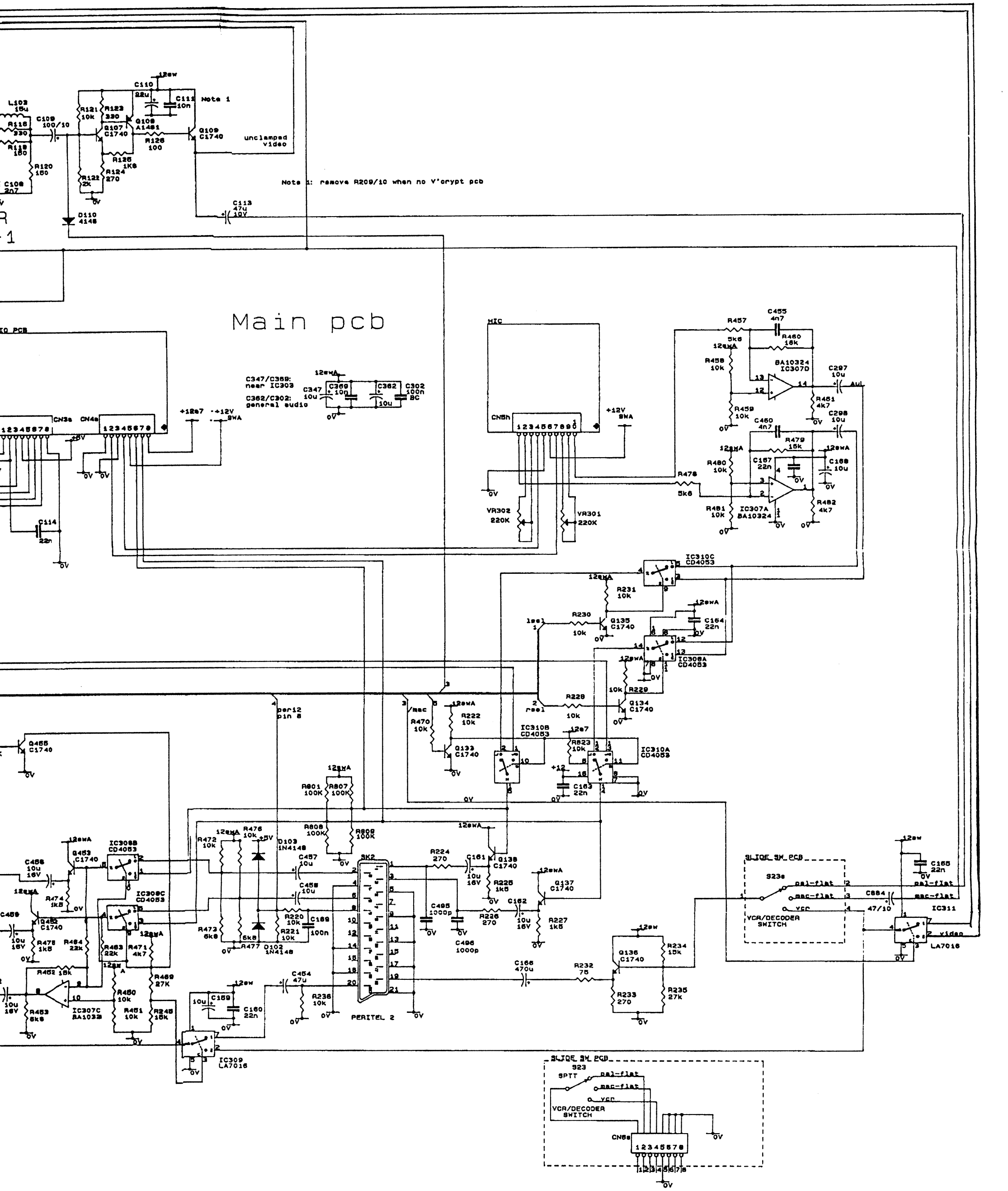
Digital & Power Diagram

AMSTRAD SRD 600

Analog Di



og Diagram


Main pcb
Note 1: remove R209/10 when no V'crypt pcb
Note 1
unclamped video
+12sw
C110 22u
C111 10n
L103 1u4
R116 330
R118 150
R120 150
C108 207
C109 100/10
R121 10k
R123 330
Q107 C1740
Q108 A1481
Q109 C1740
R126 100
R125 1K8
R124 270
R122 2k
0V
D110 4148
C113 47u 10V
IQ PCB
CN3a
CN4a
12345678
+12e7
+12V SWA
+5V
C114 22n
C347/C369: near IC303
C362/C302: general audio
12swA
C347 10u
C369 10n
C362 10u
C302 100n BC
CN5h
12345678910
VR302 220K
VR301 220K
R457 5k6
C455 4n7
R460 16k
R458 10k
R459 10k
IC307D BA10324
C297 10u
Aul
R461 4k7
C298 10u
C460 4n7
R479 15k
R480 10k
C167 22n
C168 10u
R478 5k6
R481 10k
IC307A BA10324
R482 4k7
IC310C CD4053
R231 10k
R230 10k
Q135 C1740
C164 22n
IC308A CD4053
R229 10k
R228 10k
Q134 C1740
IC310B CD4053
R223 10k
IC310A CD4053
C163 22n
R222 10k
Q133 C1740
R470 10k
mac
per12 pin 8
rsel
lsel
Q455 C1740
R801 100K
R807 100K
R808 100K
R809 100K
R476 10k
R472 10k
D103 1N4148
C457 10u
C458 10u
R220 10k
C169 100n
R221 10k
D102 1N4148
R477
R473 6k8
SK2
PERITEL 2
R224 270
C161 10u 16V
Q138 C1740
R225 1k5
C495 1000p
C496 1000p
R226 270
C162 10u 16V
Q137 C1740
R227 1k5
C166 470u
R232 75
Q136 C1740
R234 15k
R233 270
R235 27k
C454 47u
R236 10k
C159 10u
C160 22n
IC309 LA7016
C456 10u 16V
Q453 C1740
R474 1k5
IC308B CD4053
IC308C CD4053
C459 10u 16V
Q452 C1740
R475 1k5
R464 22k
R463 22k
R471 4k7
R462 15k
R469 27K
R460 10k
R451 10k
R245 15k
R453 6k8
IC307C BA1032
SLIDE SW PCB
S23e
pal-flat
mac-flat
ycc
VCR/DECODER SWITCH
C884 47/10
IC311
LA7016
video
SLIDE SW PCB
S23
SPTT
CN6s
12345678
1 2 3 4 5 6 7 8